

CLAIMS:

What is claimed is:

1. A method comprising:  
 coupling a first heat transfer plate to an electronic component in a first part of a portable computing device and a second heat transfer plate in a second part of the computing device; and  
 circulating a fluid between one of the first heat transfer plate and a second heat transfer plate.

2. The method of claim 1, further comprising:  
 coupling the first heat transfer plate to a closed loop tube.

3. The method of claim 1, wherein the fluid is one of water, oil, and liquid refrigerant.

4. The method of claim 2, wherein the tube is coupled to a pump.

5. The method of claim 2, further comprising:  
 coupling a disconnect to the tube.

6. The method of claim 1, further comprising:  
 sensing the temperature of the electronic component; and  
 causing the fluid to move when a threshold temperature is detected.

7. The method of claim 1, further comprising:  
 sensing the level of fluid in a fluid container.

8. The method of claim 1, further comprising:  
 removing heat at a rate in the range of about 10 to 50 watts.

9. The method of claim 1, wherein the electronic component is a processor.

10. The method of claim 1, wherein the fluid circulates through the tube at about a rate of 1 milliliters/second to 10 milliliters/second.

11. A heat exchanging system comprising:  
 a first heat transfer plate coupled to an electronic component located in  
 a first part of a portable computing device and to a second heat transfer plate  
 located in a second part of the portable computing device; and  
 a fluid for circulating through one of the first heat transfer plate and  
 the second heat transfer plate.

12. The heat exchanging system of claim 11, wherein the heat transfer plate  
 is coupled to a tube and the closed loop tube.

13. The heat exchanging system of claim 11, wherein the fluid is one of  
 water, oil, and liquid refrigerants.

14. The heat exchanging system of claim 11, wherein the tube is coupled to  
 a pump.

15. The heat exchanging system of claim 11, further comprising:  
 a disconnect coupling secured to the tube.

16. The heat exchanging system of claim 11, wherein a temperature sensor  
 is coupled to the tube and to a pump.

17. The heat exchanging system of claim 11, further comprising a fluid  
 sensor for detecting when fluid is low in a fluid container.

18. The heat exchanging system of claim 11, wherein the heat transfer plate  
 comprises a plate-fin type liquid heat transfer plate.

19. The heat exchanging system of claim 11, wherein heat is removed from  
 the heat exchanging system at a rate of about 10 to 100 watts.

20. The heat exchanging system of claim 11, wherein a tube comprises one  
 of rubber, plastic, aluminum, copper, and stainless steel.

21. The heat exchanging system of claim 11, wherein the electronic  
 component is a processor.

22. The heat exchanging system of claim 11, wherein the fluid circulates through the tube at about a rate of 1 to 10 ml/sec.

23. An apparatus comprising:  
 a heat generating element disposed in a first part of a portable computing device;  
 a first heat transfer plate coupled to the heat generating element;  
 a second heat transfer plate disposed in a second part of the portable computing device;  
 a tube coupled to the first part and the second part of the portable computing device; and  
 a fluid for circulating through the tube, the first part and the second part of the portable computing device.

24. The apparatus of claim 23, wherein the fluid is one of water, oil, and liquid refrigerants.

25. The apparatus of claim 23, wherein a temperature sensor is coupled to a processor which causes the fluid to flow in the tube when the temperature reaches a threshold temperature.

26. The apparatus of claim 23, wherein a fluid sensor is coupled to a fluid container.

27. The apparatus of claim 23, further comprising:  
 a disconnect coupling secured to at least an end of one of the first part and the second part.

28. An apparatus comprising:  
 a tube disposed in a portable computing device;  
 the tube coupled to a first heat transfer plate and to a heat generating device; and  
 a fluid for flowing through the tube when a temperature sensor attains a threshold temperature.

1 30. The apparatus of claim 28, wherein the tube is disposed in a first part  
2 and a second part of the computing device.

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